and is recognized by the medical community as a specialist in radiology.

[34 FR 388, Jan. 10, 1969. Redesignated at 42 FR 52826, Sept. 30, 1977. Further redesignated and amended at 60 FR 2326, Jan. 9, 1995; 60 FR 45086, Aug. 30, 1995]

§ 486.104 Condition for coverage: Qualifications, orientation and health of technical personnel.

Portable X-ray services are provided by qualified technologists.

- (a) Standard-qualifications of technologists. All operators of the portable X-ray equipment meet the requirements of paragraphs (a)(1), (2), (3), or (4) of this section:
- (1) Successful completion of a program of formal training in X-ray technology in a school approved by the Joint Review Committee on Education in Radiologic Technology (JRCERT), or have earned a bachelor's or associate degree in radiologic technology from an accredited college or university.
- (2) For those whose training was completed prior to July 1, 1966, but on or after July 1, 1960: Successful completion of 24 full months of training and/or experience under the direct supervision of a physician who is certified in radiology by the American College of Radiology or who possesses qualifications which are equivalent to those required for such certification, and at least 12 full months of pertinent portable X-ray equipment operation experience in the 5 years prior to January 1, 1968.
- (3) For those whose training was completed prior to July 1, 1960: Successful completion of 24 full months of training and/or experience of which at least 12 full months were under the direct supervision of a physician who is certified in radiology by the American College of Radiology or who possesses qualifications which are equivalent to those required for such certification, and at least 12 full months of pertinent portable X-ray equipment operation experience in the 5 years prior to January 1, 1968.
- (4) For those whose training was completed prior to January 1, 1993, successful completion of a program of formal training in X-ray technology in a school approved by the Council on Edu-

- cation of the American Medical Association, or by the American Osteopathic Association is acceptable.
- (b) Standard—personnel orientation. The supplier of portable X-ray services has an orientation program for personnel, based on a procedural manual which is: Available to all members of the staff, incorporates relevant portions of professionally recognized documents, and includes instruction in all of the following:
- (1) Precautions to be followed to protect the patient from unnecessary exposure to radiation:
- (2) Precautions to be followed to protect an individual supporting the patient during X-ray procedures from unnecessary exposure to radiation;
- (3) Precautions to be followed to protect other individuals in the surrounding environment from exposure to radiation:
- (4) Precautions to be followed to protect the operator of portable X-ray equipment from unnecessary exposure to radiation;
- (5) Considerations in determining the area which will receive the primary beam:
- (6) Determination of the time interval at which to check personnel radiation monitors;
- (7) Use of the personnel radiation monitor in providing an additional check on safety of equipment;
- (8) Proper use and maintenance of equipment;
 - (9) Proper maintenance of records;
- (10) Technical problems which may arise and methods of solution;
- (11) Protection against electrical hazards;
- (12) Hazards of excessive exposure to radiation.
- (c) Standard: Employee records. Records are maintained and include evidence that—
- (1) Each employee is qualified for his or her position by means of training and experience; and
- (2) Employees receive adequate health supervision.

[34 FR 388, Jan. 10, 1969. Redesignated at 42 FR 52826, Sept. 30, 1977, and amended at 53 FR 12015, Apr. 12, 1988; 60 FR 45086, Aug. 30, 1995; 73 FR 69942, Nov. 19, 2008]